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# PATENT ABSTRACTS OF JAPAN

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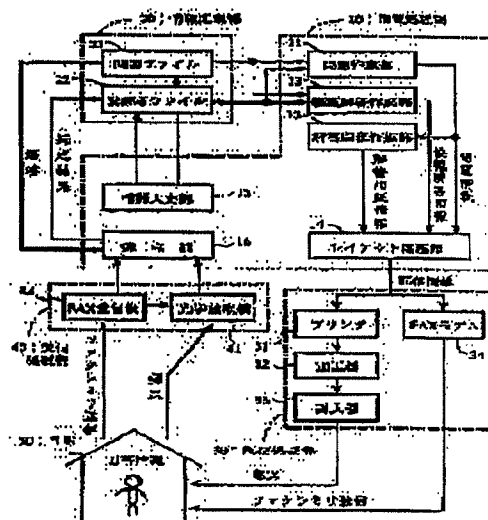
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## (54) SYSTEM FOR EDUCATION BY CORRESPONDENCE

(57)Abstract:

PURPOSE: To form an individual problem suitable for an individual trainee.

CONSTITUTION: Many problems are received into a problem file 21 by performing a first group classification based on hardness and ease and a second group classification based on a learning item. On the other hand, individual information related to a lecture course and a past result is received into a trainee file 22 at every trainee. A problem forming part 11 selects a learning item group and a difficulty group related to every trainee based on the individual information in the trainee file 22, and extracts the problem from the selected group, and makes it the problem which is set this time. Further, a model solution of the last time is formed in a model solution forming part 12, and a solving mark sheet is formed in a solution sheet forming part 13. The formed problem, model solution, mark sheet are printed out on a paper by a printer 31, and are mailed. The answer of the trainee is marked in a marking part 16.



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(Omitted)

[0014] In information storage unit 20, two files, i.e. a problem file 21 and a student file 22, are stored. Problem file 21 is formed by grouping a plurality of problems for correspondence study based on at least the difficulty level. Student file 2 summarizes personal information including the past record for a presented problem for each student. As used herein, "file" implies a "group of information corresponding to a concept in the same category", and does not necessarily match the "file" used, in the field of computer, as the recording unit of information in accordance with software processing (in specific software processing, many more files are generally produced).

[0015] Information processing unit 10 includes a problem production unit 11 producing a problem based on the information in information storage unit 20, a model answer production unit 12 producing a model answer based on the information in information storage unit 20, an answer sheet production unit 13 for producing an answer sheet based on problems produced by problem production unit 11, a layout processing unit 14 effecting layout processing for the problems, model answers, and answer sheet based on information produced by each production unit, an information input unit 15 for the input of various information to information storage unit, a scoring unit 16 for scoring the answer returned from a student. Processing of each unit will be described in detail afterwards. As mentioned above, information processing unit 10 is formed of a computer, and each structural element thereof is represented as a functional block corresponding to the processing carried out by the computer. In practice, the function of each unit will be realized by software.

[0016] Distribution processing unit 30 is a device that carries out the processing of distributing problems, model answers, and answer sheets produced by information processing unit 10 to the student. In the present embodiment, two paths are prepared

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as the paths for distribution. The first path corresponds to distribution by postal mail, and the second path corresponds to distribution by facsimile. For distribution by postal mail, a printer 31, a processing machine 32, and a mail inserter 33 are provided. For distribution by facsimile, a FAX modem 34 is provided. By either one of the two paths, the problems, model answers, and answer sheets produced by information processing unit 10 are distributed to the home 50 of a student.

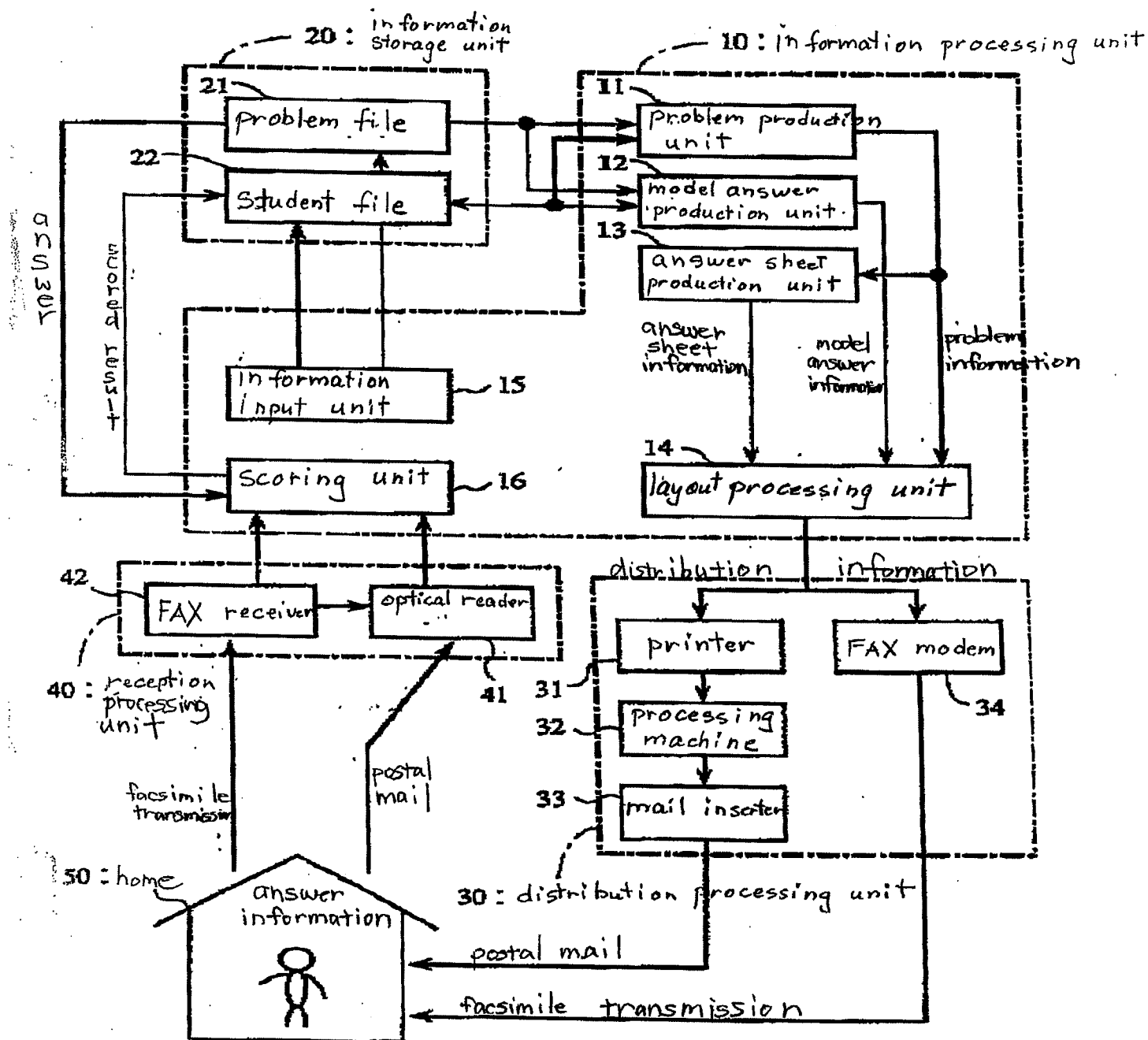
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## Reference 2

## Fig. 1

- 20: information storage unit
- 21: problem file
- 22: student file
  - answer
  - scored result
- 15: information input unit
- 16: scoring unit
- 42: FAX receiver
- 40: reception processing unit
  - facsimile transmission
- 41: optical reader
  - mail
- 50: home
  - answer information
- 10: information processing unit
- 11: problem production unit
- 12: model answer production unit
- 13: answer sheet production unit
  - answer sheet information
  - model answer information
  - problem information
- 14: layout processing unit
  - distribution information
- 31: printer
- 32: processing machine
- 33: mail inserter

34: FAX modem  
30: distribution processing unit  
mail  
facsimile transmission



(Ref 2) Fig.1